To: Schaller, Andrea[schaller.andrea@epa.gov]
From: DeLancey, George J CIV CELRL CELRD (US)
Sent: Mon 5/15/2017 4:21:19 PM
Subject: RE: HGM

Just got back in from there. Waiting for pics to come in. More convinced now that I wouldn't give them much if any allowance. Also, I looked at some areas in the Wabash and Patoka. What is in the wetlands at Seven Hills if typical. I think the consultants that were/was speaking may just not have a lot of experience with the geomorphology of a bigger stream/river wetland that is also a wide floodplain.

-----Original Message-----
From: Schaller, Andrea [mailto:schaller.andrea@epa.gov]
Sent: Monday, May 15, 2017 9:41 AM
To: DeLancey, George J CIV CELRL CELRD (US) <George.J.Delancey@usace.army.mil>
Cc: Ainslie, William <Ainslie.William@epa.gov>
Subject: [Non-DoD Source] RE: HGM

Looking back until 1902 on USGS maps there are not many streams mapped in the floodplain.

I can send the maps or you can download as pdfs. Let me know what works.

Blockedhttp://historicalmaps.arcgis.com/usgs/

Looking at historic aerials earliest we have right now the 1937 aerial from the company's submission.

-----Original Message-----
From: DeLancey, George J CIV CELRL CELRD (US) [mailto:George.J.Delancey@usace.army.mil]
Sent: Friday, May 12, 2017 2:38 PM
To: Schaller, Andrea <schaller.andrea@epa.gov>
Subject: RE: HGM

There really isn't a lot left out there. PC is in the stage where it has been widening for years and I suspect much side cast has sloughed off into PC downstream. What remains really is not much different that a natural levee. As Bill observed and Lee Droppelman stated, the site floods "frequently" and tops whatever levees that remains, so I think referencing back to PC % is a mistake. The surface connections in the wetlands flow unobstructed into PC. Stream 1 flows through a majority of PFO 1 without obstruction so I am more inclined to score on the more reverence condition side that mid or low range. There is no problem with it efficiently getting back to PC. More credit needs to be given to the drainage area that makes up stream 1 and it ability to provide hydrology from upstream/offsite sources.

-----Original Message-----
From: Schaller, Andrea [mailto:schaller.andrea@epa.gov]
Sent: Friday, May 12, 2017 1:57 PM
To: DeLancey, George J CIV CELRL CELRD (US) <George.J.Delancey@usace.army.mil>
Subject: [Non-DoD Source] RE: HGM

What about looking at % of pigeon crk that cannot top the levees or has breaks in the levee?

-----Original Message-----
From: DeLancey, George J CIV CELRL CELRD (US) [mailto:George.J.Delancey@usace.army.mil]
Sent: Friday, May 12, 2017 1:52 PM
To: Schaller, Andrea <schaller.andrea@epa.gov>
Subject: RE: HGM

I may try to get out there Monday morn to get some pick of Stream 1 going into PC.

-----Original Message-----
From: DeLancey, George J CIV CELRL CELRD (US)
Sent: Friday, May 12, 2017 1:37 PM
To: 'Schaller, Andrea' <schaller.andrea@epa.gov>
Subject: HGM

Suf con - look at this map (page 2). I think this is typical of streams in big river floodplains and I think they don't appreciate that big river floodplains typically do not have a lot of E tribs and such. Stream 1 flows through most of PFO1 and I see it as being very efficient in draining/exporting.

George DeLancey
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